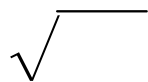


Radical Review



$$\sqrt{36} = 6$$

$$\sqrt{4} \sqrt{9}$$

$$2 \cdot 3 = 6$$

Simplify + root only

Solving \pm root

$$\sqrt{x^2} = \sqrt{36}$$

$$x = \pm 6$$

Sep 7-9:21 AM

Sep 7-11:53 AM

$$\sqrt{36}$$

4 9

(2 2) (3 3)

$$2 \cdot 3$$

$$6$$

$$\sqrt{25}$$

Sep 9-7:38 AM

Sep 7-11:53 AM

$\sqrt{50}$

25 2

5 5

5√2

$\sqrt{25} \sqrt{2}$

5√2

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$\sqrt{56}$

7 8

4 2

2 2

2√14

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$\sqrt{45}$

3√5

15 3

5 3

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$\sqrt{512}$

8 64

2 2

2 2 2 2 2

16√2

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Do:

$$1. \sqrt{243} = 9\sqrt{3}$$

$$2. \sqrt{400} = 20$$

$$3. \sqrt{75} = 5\sqrt{3}$$

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Variables

$$\sqrt{75a^2b^3c^6}$$

Handwritten annotations: The 75 is circled. Below it, two 'a's are circled and connected by an arrow. To the right, three 'b's are circled, with a 'b' and a '3' above them, indicating b^3 .

$$5abc^3\sqrt{3b}$$

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$$\sqrt{a^2b^2}$$

$$= ab$$

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$$\sqrt{8a^2b^2}$$

$$2ab\sqrt{2}$$

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$$\sqrt{a^2 + b^2}$$

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Multiplication

$$\sqrt{5} \quad \sqrt{10}$$

outside \times outside
inside \times inside

$$\sqrt{50}$$

25 2

$$5\sqrt{2}$$

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$$3\sqrt{6} \cdot 4\sqrt{5}$$

$$12\sqrt{30}$$

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$$\sqrt{32} \cdot \sqrt{8}$$

$$\sqrt{32 \cdot 8}$$

2 16 4 2

4 4 2 2

2 2 2 2

16

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Division

$$\frac{3}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \boxed{\frac{3\sqrt{2}}{2}}$$

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Division

$$\sqrt{\frac{7}{5}} = \frac{\sqrt{7}}{\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}} = \frac{\sqrt{35}}{5}$$

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Division

$$\frac{\sqrt{18}}{\sqrt{12}} = \sqrt{\frac{18}{12}} = \frac{\sqrt{3}}{\sqrt{2}}$$

$$\frac{\sqrt{3}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \boxed{\frac{\sqrt{6}}{2}}$$

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Add/Subtract - combine like terms

$$7\sqrt{2} + 5\sqrt{2} + 3\sqrt{3}$$

$$\boxed{12\sqrt{2} + 3\sqrt{3}}$$

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$$7\sqrt{6} - 5\sqrt{24}$$

Handwritten work shows the simplification of $5\sqrt{24}$ into $10\sqrt{6}$ and the final result $-3\sqrt{6}$.

Handwritten notes: $4 \cdot 6$, $2 \cdot 2$, $2 \cdot 3$, $2 \cdot 6$, $7\sqrt{6} - 10\sqrt{6}$, $-3\sqrt{6}$

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Do:

- $2\sqrt{8} \cdot 4\sqrt{3}$
- $\frac{\sqrt{16}}{\sqrt{8}}$
- $\frac{\sqrt{5x^4}}{\sqrt{3}}$
- $8\sqrt{5} - 2\sqrt{45} + 4\sqrt{8}$

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Assignment
p745 1-18
not 15 and 16

Sep 11-7:24 AM